

## 5. 【迴文詞/Palindromes】

輸入一個字串，判斷它是否為迴文串以及鏡像串。輸入字串保證不含數字 0。所謂迴文串就是反轉以後和原串相同，如 abba 和 madam。所謂鏡像串，就是左右鏡像之後和原串相同，如 2S 和 3AIAE。注意，並不是每個字元在鏡像之後都能得到一個合法字元。在本題中，每個字元的鏡像如下表所示（空白項表示該字元鏡像後不能得到一個合法字元）。

Character	Reverse	Character	Reverse	Character	Reverse
A	A	M	M	Y	Y
B		N		Z	5
C		O	O	1	1
D		P		2	S
E	3	Q		3	E
F		R		4	
G		S	2	5	Z
H	H	T	T	6	
I	I	U	U	7	
J	L	V	V	8	8
K		W	U	9	
L	J	X	X		

鏡像字元

輸入的每行包含一個字串（至多只有 20 個字元；且保證只有上述合法字元，不含空白字元），判斷它是否為迴文串和鏡像串（共 4 種組合）。每組資料之後輸出一個空行。（Page 3-14，UVa401）

輸入：

```
NOTAPALINDROME
ISAPALINILAPASI
2A3MEAS
ATOYOTA
```

輸出（註）：

```
NOTAPALINDROME -- is not a palindrome.
```

```
ISAPALINILAPASI -- is a regular palindrome.
```

```
2A3MEAS -- is a mirrored string.
```

```
ATOYOTA -- is a mirrored palindrome.
```

(註)

## Output

For each input string, you should print the string starting in column 1 immediately followed by exactly one of the following strings.

STRING	CRITERIA
' -- is not a palindrome.'	if the string is not a palindrome and is not a mirrored string
' -- is a regular palindrome.'	if the string is a palindrome and is not a mirrored string
' -- is a mirrored string.'	if the string is not a palindrome and is a mirrored string
' -- is a mirrored palindrome.'	if the string is a palindrome and is a mirrored string

**Note** that the output line is to include the '-'s and spacing exactly as shown in the table above and demonstrated in the Sample Output below.

In addition, after each output line, you must print an empty line.